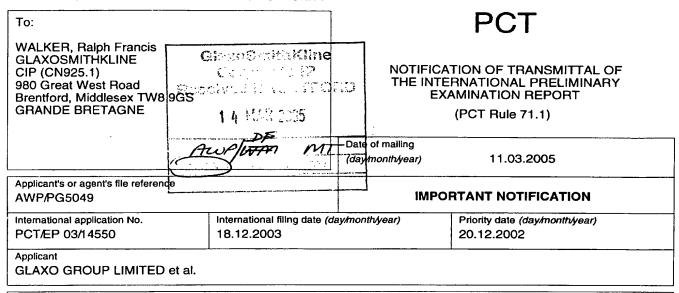
PATENT COOPERATION TREATY

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY



- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international preliminary examining authority:



European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 **Authorized Officer**

Fuerbass, C

Tel. +49 89 2399-8132



PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference AWP/PG5049				FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/PEA/416)				
International application No. PCT/EP 03/14550				International filing date (day/month/year) 18.12.2003		th/year)	Priority date (day/month/year) 20.12.2002	
1	nationa D11/		nt Classification (IPC) or be	l oth national classification a	ind IPC		1.	
Applicant GLAXO GROUP LIMITED et al.								
1.	This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.							
2.	This REPORT consists of a total of 8 sheets, including this cover sheet.							
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
	These annexes consist of a total of sheets.							
	Thia		d acutaina indicationa ra	lating to the following it	ame:			
3.	inis	repo	rt contains indications re	nating to the following to	ems.			
	1 11		Basis of the opinion Priority	•				
	TU HI		•	oninion with regard to n	ovettv i	nventive sten a	and industrial applicability	
				•	oveny, n	nventive Step a	ind industrial applicability	
	 IV ☒ Lack of unity of invention V ☒ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement 					ventive step or industrial applicability;		
	VI		Certain documents cit	ed				
	VII		Certain defects in the	international application				
	VIII		Certain observations of	on the international appl	ication			
Date	Date of submission of the demand					completion of th	is report	
11.06.2004					11.03	.2005		
Nam	e and	mailin	g address of the internation	al	Authori	zed Officer	ugs Polan-	
preliminary examining authority: European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465					Dege Teleph	n, M one No. +49 89 2	2399-8612	

10/539141

JC20 Rec'd PCT/PTO 1 6 JUN 2005

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/14550

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	Description, Pages						
	1-2)	as originally filed					
	Cla							
		ims, Numbers	. 2.1 H . 19 .)					
	1-12	2	as originally filed					
	Dra	wings, Sheets						
	1/2-	2/2	as originally filed					
2.	With regard to the language, all the elements marked above were available or furnished to this Authority language in which the international application was filed, unless otherwise indicated under this item.							
	The	se elements were av	ailable or furnished to this Authority in the following language: , which is:					
		the language of a tra	inslation furnished for the purposes of the international search (under Rule 23.1(b)).					
		the language of publ	ication of the international application (under Rule 48.3(b)).					
		the language of a tra Rule 55.2 and/or 55.	inslation furnished for the purposes of international preliminary examination (under 3).					
3.	With inte	n regard to any nucle rnational preliminary	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:					
		contained in the inte	rnational application in written form.					
		filed together with the	e international application in computer readable form.					
	☐ furnished subsequently to this Authority in written form.							
☐ furnished subsequently to this Authority in computer readable form.								
	☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.							
		The statement that the listing has been furnitude.	he information recorded in computer readable form is identical to the written sequence ished.					
4.	The	ne amendments have resulted in the cancellation of:						
		the description,	pages:					
		the claims,	Nos.:					
		the drawings,	sheets:					

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/14550

5. This report has been established as if (some of) the amendments had no been considered to go beyond the disclosure as filed (Rule 70.2(c)).									
		(Any replacement sheet conta report.)	containing such amendments must be referred to under item 1 and annexed to this						
6.	Add	litional observations, if necessa	ary:						
I۷	. Lac	k of unity of invention							
1.	. In response to the invitation to restrict or pay additional fees, the applicant has:								
	☐ restricted the claims.								
	\boxtimes	paid additional fees.							
		paid additional fees under protest.							
		neither restricted nor paid add	either restricted nor paid additional fees.						
2.		This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.							
3.	This	is Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3							
		complied with.							
	\boxtimes	not complied with for the following reasons:							
	see	e separate sheet							
4.		onsequently, the following parts of the international application were the subject of international preliminary camination in establishing this report:							
	☒	all parts.							
		the parts relating to claims Nos							
V.		easoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; ations and explanations supporting such statement							
1.	Stat	tement							
	Nov	relty (N)	Yes: No:	Claims Claims	3,6,7 1,2,4,5,8-12				
	Inve	entive step (IS)	Yes: No:	Claims Claims	6 3, 7				
	Indu	ustrial applicability (IA)	Yes: No:	Claims Claims	1-12				

2. Citations and explanations

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/14550

see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

Reference is made to the following documents mentioned in the international search report (ISR):

- D1: US-A-5 543 057 (WHITING PHILIP ET AL) 6 August 1996 (1996-08-06)
- D2: EP-A-1 005 903 (EBARA CORP) 7 June 2000 (2000-06-07)
- D3: US 2002/179540 A1 (PERRUT MICHEL) 5 December 2002 (2002-12-05)
- D4: US-B-6 440 3371 (HANNA MAZEN ET AL) 27 August 2002 (2002-08-27)
- D5: US-A-5 252 224 (KUHARICH EVAN F ET AL) 12 October 1993 (1993-10-12)
- D6: WO 99/65469 A (RTP PHARMA INC) 23 December 1999 (1999-12-23)

Re Item IV

Lack of unity of invention

- This Authority considers that there are three inventions covered by the claims, namely:
 - <u>Claims 1-4, 11, 12</u> directed to:

a process for the isolation of particles produced by (another) process working at high pressure, wherein said particles are isolated as a suspension in a non-supercritical fluid.

Particles isolated from a high pressure process as a suspension in a non-supercritical fluid.

An apparatus for the isolation of produced particles as a suspension in a non-supercritical fluid.

II: Claims 5, 6, 11, 12 directed to:

an apparatus and a process for the homogenisation of a particle product, wherein the particles are in a suspension.

The particles produced by such a process.

III: Claims 7-12 directed to:

a process for the isolation of a product consisting of more than one component produced by separate high pressure processes.

Due the fact that subject-matter of claims 1 and 2 is totally disclosed in the documents cited in the international search report (cf. following Item V), the first claimed group of inventions is as such intrinsically not unitary (3 inventions: process/product/apparatus) and not unitary with the other two mentioned groups of inventions:

the common concept linking together the first group of inventions with the second

EXAMINATION REPORT - SEPARATE SHEET

one is the suspension containing the product as produced in a high pressure process. This concept is however known in the art (cf. item V).

the common concept linking together the first group of inventions with the third one is the product as produced in a high pressure process. This concept is however known in the art (cf. item V).

Thus, neither the combination of the essential features nor the inherent problem to be solved (and consequently also the corresponding solutions thereof) in the group of inventions are so linked as to form a single general inventive concept.

Particularly, there is no technical connection between the solutions of the different technical problems addressed in the three groups of invention which could give the expression to common inventive features.

The application, hence does not meet the requirements of unity of invention as defined in Rules 13.1 and 13.2 PCT.

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The applicant did not restrict but paid additional examination fees. Thus, this opinion covers the complete set of claims.

- First Invention (Claims 1-4, 11, 12) 1.
- 1.1 The subject-matter of claims 1 and 2 is already known from D1 (cf. fig. 1; col. 5, line 1 col. 7, line 15), where the particles produced by a supercritical oxidation reaction are recovered as a suspension in water at subcritical conditions (water slurry). Even starting from other documents (e.g. D2-D6 (cf. to citations in the ISR)) we conclude that the requirements of Art. 33(2) PCT are not met.
- 1.2 As to claim 3, even if apparently none of the documents mentioned in the ISR mention the presence of both a pressure and temperature control, it is believed that it is a standard practice for the skilled man to foresee such controls in order to avoid possible damages of the collection vessel.

EXAMINATION REPORT - SEPARATE SHEET

For example, in D1 the supercritic fluid is water (Tc=374 °C, Pc=218 bar). Now, if the collection vessel is in carbon steel material, it is mandatory to limit the fluid temperatures below e.g. 400°C using a temperature control. As required by any safety standard, the pressures as well must be controlled. Thus the presence of these two features is not considered to be inventive as the advantages so achieved are straightforward or even standard practice for the skilled man.

- 1.3 As to claim 4, the same conclusions as to claim 2 directly apply. It should be noted, that being this claim redundant to claim 2 it is not concise (Art. 6 PCT).
- 1.4 The actual wording of claim 11 renders its subject-matter unclear as it claims a product but refers back to claims directed to process or apparatus (in addition to products). Additionally, the wording "as described" or "prepared in a different way" are totally unclear: described where and which different way is meant? Are all different ways suitable for obtaining the product? The requirements of Art. 6 PCT are therefore not met. It should be noted, that D1 shows the use of powders as a feed.
- 1.5 Apart the wrong dependency, the wording "facilitates" renders the subject-matter of claim 12 unclear (Art. 6 PCT) as it does not state which features are responsible for the alleged facilitation. All D1-D6 show processes that facilitate the formation and isolation of products (Art. 33(2) PCT).
- 2. Second Invention (Claims 5, 6, 11, 12)
- 2.1 The subject-matter of claim 5 is anticipated e.g. by D2 (cf. citations in the ISR) where a slurry is homogenized by a rotating shaft (Art. 33(2) PCT).
- 2.2 The process of claim 6 is neither known from not rendered obvious by any of the cited prior art. Through the step of recycling the homogenized slurry, better product quality can be obtained.
- 2.3 For claims 11 and 12 refer to point 1.4 and 1.5 above.
- 3. Third invention (Claims 7-12)

- **EXAMINATION REPORT SEPARATE SHEET**
- 3.1 The subject-matter of claim 7, even if not anticipated by the cited prior art does not seem to introduce patentable subject-matter as it appears to merely a combination of two known processes (e.g. those known from D1) without showing, however, any unexpected effect as required by Art. 33(3) PCT.
- 3.2 Products comprising more than one component, for example 2 components and where the second component coats the first are known in the art (e.g. medicaments, bonbons etc.). The subject-matter of claims 8-10 is not allowable under Art. 33(2) PCT.
- 3.4 For claims 11 and 12 refer to point 1.4 and 1.5 above.